

which the water in cup B radiated heat was greater.

- Answers may vary. Sample: You should let the hot chocolate sit for five minutes and then add the ice cube. By letting the hot chocolate radiate first, the difference in temperature between the hot chocolate and the room is greater than if you added the ice cube immediately. Therefore, the hot chocolate will cool faster.
- Answers may vary. Sample: Pancakes that are immediately covered in syrup will stay warm longer. The syrup will decrease the temperature difference between the pancakes and the room so that they will not radiate heat as quickly.

Section 6-3 Review and Reinforce (p. 159)

- The solid ice absorbed thermal energy from its surroundings and changed state, or melted, to become liquid water.
- When a substance is changing state, its thermal energy is changing but its temperature remains the same. That's because the change in thermal energy is changing the arrangement of the particles, but the average kinetic energy of those particles is not changing.
- Metal expands when it heats up. If there were no gaps, the railway tracks could bend or buckle on a hot day.
- melting
- state
- condensation
- evaporation
- boiling
- freezing
- thermostat
- thermal expansion
- change of state
- vaporization
- bimetallic strip

Section 6-3 Enrich (p. 160)

- Sprinklers that are set off when a link of solder melts involve a change of state.
- As the temperature rises, the part with the lowest melting point will melt first. The link of

solder in a sprinkler should melt first, so the solder should have the lowest melting point.

- The glass expands less than the liquid inside it because the expansion of the liquid causes the glass to break.
- If each sprinkler is set off individually, only the area of the fire will be sprayed and less water damage will occur.
- Heat moves to the sprinkler by radiation and by convection.
- If sprinklers were designed to go off a few degrees above room temperature, they could go off for reasons other than a fire, such as if the building's temperature rose due to a broken air conditioner.

Section 6-4 Review and Reinforce (p. 163)

- Only Internal Combustion Engines: Fuel is burned inside the engine. Examples are diesel and gasoline engines;
Only External Combustion Engines: Fuel is burned outside the engine. An example is a steam engine;
Shared: Contains pistons and cylinders. Thermal energy is converted to mechanical energy.
- a
- c
- e
- b
- d

Section 6-4 Enrich (p. 164)

- Tube A contains hotter water than tube B, because the water in it is coming from the hot engine.
- Heat flows into air moving past the radiator.
- The radiator cools the fluid.
- Answers may vary, but should indicate some problem with overheating. Samples: It might get too hot. It might break. The oil might burn.

Chapter 6 Skills Lab (pp. 165–167)

For answers, see Teacher's Edition, pp. 170–171.

Section 5 1 Reinforcement Answer Key

Marcel A. Müller



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Table of Contents Section 5 1 Reinforcement Answer Key

1. Understanding the eBook Section 5 1 Reinforcement Answer Key
 - The Rise of Digital Reading Section 5 1 Reinforcement Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Section 5 1 Reinforcement Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Section 5 1 Reinforcement Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Section 5 1 Reinforcement Answer Key
 - Personalized Recommendations

- Section 5 1 Reinforcement Answer Key User Reviews and Ratings
- Section 5 1 Reinforcement Answer Key and Bestseller Lists
- 5. Accessing Section 5 1 Reinforcement Answer Key Free and Paid eBooks
 - Section 5 1 Reinforcement Answer Key Public Domain eBooks
 - Section 5 1 Reinforcement Answer Key eBook Subscription Services
 - Section 5 1 Reinforcement Answer Key Budget-Friendly Options
- 6. Navigating Section 5 1 Reinforcement Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Section 5 1 Reinforcement Answer Key Compatibility with Devices
 - Section 5 1 Reinforcement Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Section 5 1 Reinforcement Answer Key
 - Highlighting and Note-Taking Section 5 1 Reinforcement Answer Key
 - Interactive Elements Section 5 1 Reinforcement Answer Key
- 8. Staying Engaged with Section 5 1 Reinforcement Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Section 5 1 Reinforcement Answer Key
- 9. Balancing eBooks and Physical Books Section 5 1 Reinforcement Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Section 5 1 Reinforcement Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Section 5 1 Reinforcement Answer Key
 - Setting Reading Goals Section 5 1 Reinforcement Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Section 5 1 Reinforcement Answer Key
 - Fact-Checking eBook Content of Section 5 1 Reinforcement Answer Key

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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